



SEQUENCE LISTING

<110> Wei, Dong
Halenbeck, Robert
Williams, Lewis T.

<120> NOVEL PROTEIN ASSOCIATED WITH CELL
STRESS RESPONSE

<130> 200130.471/1561.003

<140> 09/544,776

<141> 2000-04-07

<160> 11

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 2240

<212> DNA

<213> Homo sapiens

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<210> 2

<211> 373

<212> PRT

<213> Homo sapien

<400> 2

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Asp Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Glu Asp
35 40 45
Leu Glu Glu Leu Glu Val Leu Glu Arg Lys Pro Ala Ala Gly Leu Ser
50 55 60
Ala Ala Pro Val Pro Thr Ala Pro Ala Ala Gly Ala Pro Leu Met Asp
65 70 75 80
Phe Gly Asn Asp Phe Val Pro Pro Ala Pro Arg Gly Phe Leu Pro Ala
85 90 95
Ala Pro Pro Val Ala Pro Glu Arg Gln Pro Ser Trp Asp Pro Ser Pro
100 105 110
Val Ser Ser Thr Val Pro Ala Pro Ser Phe Leu Ser Ala Ala Ala Val
115 120 125
Ser Pro Ser Lys Leu Pro Glu Asp Asp Glu Pro Pro Ala Arg Pro Pro
130 135 140
Pro Pro Pro Pro Ala Ser Val Ser Pro Gln Ala Glu Pro Val Trp Thr
145 150 155 160
Pro Pro Ala Pro Ala Pro Ala Ala Pro Pro Ser Thr Pro Ala Ala Pro
165 170 175
Lys Arg Arg Gly Ser Ser Gly Ser Val Val Val Asp Leu Leu Tyr Trp
180 185 190
Arg Asp Ile Lys Lys Thr Gly Val Val Phe Gly Ala Ser Leu Phe Leu
195 200 205
Leu Leu Ser Leu Thr Val Phe Ser Ile Val Ser Val Thr Ala Tyr Ile
210 215 220
Ala Leu Ala Leu Leu Ser Val Thr Ile Ser Pro Arg Ile Tyr Lys Gly
225 230 235 240
Val Ile Gln Ala Ile Gln Lys Ser Asp Glu Gly His Pro Phe Arg Ala
245 250 255
Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu Glu Leu Val Gln Lys Tyr
260 265 270
Ser Asn Ser Ala Leu Gly His Val Asn Cys Thr Ile Lys Glu Leu Arg
275 280 285
Arg Leu Phe Leu Val Asp Asp Leu Val Asp Ser Leu Lys Phe Ala Val
290 295 300

Leu Met Trp Val Phe Thr Tyr Val Gly Ala Leu Phe Asn Gly Leu Thr
 305 310 315 320
 Leu Leu Ile Leu Ala Leu Ile Ser Leu Phe Ser Val Pro Val Ile Tyr
 325 330 335
 Glu Arg His Gln Ala Gln Ile Asp His Tyr Leu Gly Leu Ala Asn Lys
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 Lys Arg Lys Ala Glu
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 <213> Artificial Sequence

<220>
 <223> Antisense oligonucleotide

<400> 3
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25

<210> 4
 <211> 25
 <212> RNA
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<220>
 <223> Antisense oligonucleotide

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25

<210> 5
 <211> 24
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 <213> Artificial Sequence

<220>
 <223> Antisense oligonucleotide

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24

<210> 6
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 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Antisense oligonucleotide

<400> 6
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24

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Ile	Leu	Arg	Glu	Glu	Arg	Glu	Ala	Glu	Leu	Asp	Ser	Glu	Leu	Ile	Ile
		35					40					45			
Glu	Ser	Cys	Asp	Ala	Ser	Ser	Ala	Ser	Glu	Glu	Ser	Pro	Lys	Arg	Glu
	50					55					60				
Gln	Asp	Ser	Pro	Pro	Met	Lys	Pro	Ser	Ala	Leu	Asp	Ala	Ile	Arg	Glu
65					70					75					80
Glu	Thr	Gly	Val	Arg	Ala	Glu	Glu	Arg	Ala	Pro	Ser	Arg	Arg	Gly	Leu
				85					90					95	
Ala	Glu	Pro	Gly	Ser	Phe	Leu	Asp	Tyr	Pro	Ser	Thr	Glu	Pro	Gln	Pro
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Gly	Pro	Glu	Leu	Pro	Pro	Gly	Asp	Gly	Ala	Leu	Glu	Pro	Glu	Thr	Pro
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Met	Leu	Pro	Arg	Lys	Pro	Glu	Glu	Asp	Ser	Ser	Ser	Asn	Gln	Ser	Pro
	130					135					140				
Ala	Ala	Thr	Lys	Gly	Pro	Gly	Pro	Leu	Gly	Pro	Gly	Ala	Pro	Pro	Pro
145				150					155						160
Leu	Leu	Phe	Leu	Asn	Lys	Gln	Lys	Ala	Ile	Asp	Leu	Leu	Tyr	Trp	Arg
				165				170						175	
Asp	Ile	Lys	Gln	Thr	Gly	Ile	Val	Phe	Gly	Ser	Phe	Leu	Leu	Leu	Leu
			180					185					190		
Phe	Ser	Leu	Thr	Gln	Phe	Ser	Val	Val	Ser	Val	Val	Ala	Tyr	Leu	Ala
		195					200					205			
Leu	Ala	Ala	Leu	Ser	Ala	Thr	Ile	Ser	Phe	Arg	Ile	Tyr	Lys	Ser	Val
	210					215					220				
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Leu	Glu	Leu	Glu	Ile	Thr	Leu	Ser	Gln	Glu	Gln	Ile	Gln	Lys	Tyr	Thr
				245				250						255	
Asp	Cys	Leu	Gln	Phe	Tyr	Val	Asn	Ser	Thr	Leu	Lys	Glu	Leu	Arg	Arg
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		275					280					285			
Met	Trp	Leu	Leu	Thr	Tyr	Val	Gly	Ala	Leu	Phe	Asn	Gly	Leu	Thr	Leu
	290					295					300				
Leu	Leu	Met	Ala	Val	Val	Ser	Met	Phe	Thr	Leu	Pro	Val	Val	Tyr	Val
305				310					315						320
Lys	His	Gln	Ala	Gln	Ile	Asp	Gln	Tyr	Leu	Gly	Leu	Val	Arg	Thr	His
				325				330						335	
Ile	Asn	Ala	Val	Val	Ala	Lys	Ile	Gln	Ala	Lys	Ile	Pro	Gly	Ala	Lys
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Arg	His	Ala	Glu												

<210> 8
 <211> 371
 <212> PRT
 <213> Homo sapiens

<400> 8

Met Glu Asp Leu Asp Gln Ser Pro Leu Val Ser Ser Ser Asp Ser Pro
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 Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu Asp Glu Asp
 35 40 45
 Leu Glu Glu Leu Glu Val Leu Glu Arg Lys Pro Ala Ala Gly Leu Ser
 50 55 60
 Ala Ala Pro Val Pro Thr Ala Pro Ala Ala Gly Ala Pro Leu Met Asp
 65 70 75 80
 Phe Gly Asn Asp Phe Val Pro Pro Ala Pro Arg Gly Pro Leu Pro Ala
 85 90 95
 Ala Pro Pro Val Ala Pro Glu Arg Gln Pro Ser Trp Asp Pro Ser Pro
 100 105 110
 Val Ser Ser Thr Val Pro Ala Pro Ser Pro Leu Ser Ala Ala Ala Val
 115 120 125
 Ser Pro Ser Lys Leu Pro Glu Asp Asp Glu Pro Pro Ala Arg Pro Pro
 130 135 140
 Pro Pro Pro Pro Ala Ser Val Ser Pro Gln Ala Glu Pro Val Trp Thr
 145 150 155 160
 Pro Pro Ala Pro Ala Pro Ala Ala Pro Pro Ser Thr Pro Ala Ala Pro
 165 170 175
 Lys Arg Arg Gly Ser Ser Gly Ser Val Val Val Asp Leu Leu Tyr Trp
 180 185 190
 Arg Asp Ile Lys Lys Thr Gly Val Val Phe Gly Ala Ser Leu Phe Leu
 195 200 205
 Leu Leu Ser Leu Thr Val Phe Ser Ile Val Ser Val Thr Ala Tyr Ile
 210 215 220
 Ala Leu Ala Leu Leu Ser Val Thr Ile Ser Phe Arg Ile Tyr Lys Gly
 225 230 235 240
 Val Ile Gln Ala Ile Gln Lys Ser Asp Glu Gly His Pro Phe Arg Ala
 245 250 255
 Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu Glu Leu Val Gln Lys Tyr
 260 265 270
 Ser Asn Ser Ala Leu Gly His Val Asn Cys Thr Ile Lys Glu Leu Arg
 275 280 285
 Arg Leu Phe Leu Val Asp Asp Leu Val Asp Ser Leu Lys Phe Ala Val
 290 295 300
 Leu Met Trp Val Phe Thr Tyr Val Gly Ala Leu Phe Asn Gly Leu Thr
 305 310 315 320
 Leu Leu Ile Leu Ala Leu Ile Ser Leu Phe Ser Val Pro Val Ile Tyr
 325 330 335
 Glu Arg His Gln Ala Gln Ile Asp His Tyr Leu Gly Leu Ala Asn Lys
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 Asn Val Lys Asp Ala Met Ala Lys Ile Gln Ala Lys Ile Pro Gly Leu
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 Lys Arg Lys
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<210> 9
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 9

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 Gly Val Gln Gln Val Pro Pro Asn Met Val Leu Tyr Gly Leu Ala Leu
 35 40 45
 Phe Leu Thr Leu Phe Val Met Ala Pro Val Phe Glu Glu Ile Tyr Asp
 50 55 60
 Arg Ala His Gln Pro Leu Leu Asp Ala Leu Ser Asn Ile Ile Ser Leu
 65 70 75 80
 Gln Glu Ala Leu Asp Lys Gly Leu Glu Pro Leu Arg Glu Phe Met Leu
 85 90 95
 Lys His Thr Asp Glu Lys His Glu Leu Ala Leu Phe Met Arg Ser Ala
 100 105 110
 Arg Glu Glu Arg Leu Trp Pro Lys Glu Met Lys Ala Ala Thr Leu Glu
 115 120 125
 Lys Asp Asp Leu Leu Val Leu Ile Pro Ala Phe Val Leu Ser Glu Leu
 130 135 140
 Lys Arg Ala Phe Glu Ile Gly Phe Leu Ile Tyr Leu Pro Phe Ile Val
 145 150 155 160
 Ile Asp Leu Val Val Ala Ser Ile Leu Met Ala Met Gly Met Met Met
 165 170 175
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 180 185 190
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 195 200 205

<210> 10
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 10

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 Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys Ser Asp Glu Gly His Pro
 35 40 45
 Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala Ile Ser Glu Glu Leu Val
 50 55 60
 Gln Lys Tyr Ser Asn Ser Ala Leu Gly His Val Asn Cys Thr Ile Lys
 65 70 75 80
 Glu Leu Arg Arg Leu Phe Leu Val Asp Asp Leu Val Asp Ser Leu Lys
 85 90 95
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Gly Leu Thr Leu Leu Ile Leu Ala Leu Ile
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<210> 11
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<212> PRT
<213> Homo sapiens

<400> 11
Lys Arg Tyr Ala Glu
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